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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/855,480	05/15/2001	Ronald Earl Highsmith	H0001323	9623	
75	590 10/02/2002				
Honeywell International Inc.			EXAMINER		
15801 Woods E Colonial Heigh			BARRY, CI	HESTER T	
			ART UNIT	PAPER NUMBER	
			1724	2	
			DATE MAILED: 10/02/2002	DATE MAILED: 10/02/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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,	Application No.	Apı	Applicant(s)				
	09/855,480	HIG	HIGHSMITH, RONALD EARL				
Office Action Summary	Examiner	Art	Unit				
	Chester T. Barry	172		· /			
The MAILING DATE of this communication app Period for Reply	ears on the cover	sneet with the corres	spondence aud	ress			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, howe y within the statutory min will apply and will expire s cause the application to	ver, may a reply be timely file mum of thirty (30) days will b SIX (6) MONTHS from the man become ABANDONED (35	ed be considered timely. gilling date of this cor U.S.C. § 133).	nmunication.			
1)⊠ Responsive to communication(s) filed on <u>16 A</u>	August 2001						
	is action is non-fi	nal					
3) Since this application is in condition for allows			cution as to the	e merits is			
closed in accordance with the practice under Disposition of Claims	Ex parte Quayle,	1935 C.D. 11, 453 C	D.G. 213.				
4) Claim(s) 1-29 is/are pending in the application.							
4a) Of the above claim(s) 20-29 is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-19</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election require	ment.					
Application Papers							
9) The specification is objected to by the Examine		latinatada budha F	vamina.				
10)⊠ The drawing(s) filed on <u>15 May 2001</u> is/are: a)⊡ accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120	ariiiior.						
	n priority under 35		or (f)				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) \square The translation of the foreign language provisional application has been received. 15) \square Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2	4) 🔯 5) 🔲 6) 🔲	Interview Summary (PT Notice of Informal Pater Other:					
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Restriction to one of the following inventions is required under 35 U.S.C. 121:

- 1. Claims 1-19, drawn to a composition, classified in class 71, subclass 6+.
- II. Claims 20-29, drawn to a method of making a sludge solids composition, classified in class 210, subclass 601+.

The inventions are distinct, each from the other because of the following reasons:
Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the product as claimed can be made by another and materially different process.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

A telephone call was made to Melanie Brown on 9/23/02 to request an oral election to the above restriction requirement. Group I was elected with traverse.

Applicant is advised that the reply to this requirement to be complete must confirm the election noted above.

Fig 1 is objected to for want of "Prior Art" to appear on the figure. The grawing is objected to further on the grounds that the portion thereof entitled, "Typical Sludge Drying/pelletization (Granulation) Process" should be denoted as a separate figure. It is suggested that Fig. 1 (top) be labeled "Fig. 1A Prior Art" and that Fig. 1 (bottom) be labeled "Fig. 1B Prior Art." Further, amendment of the text and Brief Description of the Drawings of the application to refer to the lower portion as Fig. 1B would be required.

Fig. 1 is objected to for the blocks labeled "Anaerobic Digestion," "Sludge Dewatering," and "Sludge Disposal" to proceed from right-to-left rather than from left-to-right. Similarly, at the lower portion thereof, Fig. 1 is objected to for the process blocks to proceed from right-to-left rather than from left-to-right. Fig. 2 is objected to for the process blocks to proceed from right-to-left rather than from left-to-right. In our predominately left-to-right reading culture, presentation of processing blocks in the same order facilitates rapid and efficient comprehension of the diagrams not just during examination of this application, but also during subsequent review thereof by countless others during pre-searching of other's inventions, infringement clearance searches, and searching of others' applications, should this application ultimately issue as a patent. If the examiner's suggestion is adopted, be sure to reverse the direction of the recycle stream accordingly. Uniformly adopted voluntarily not were convention this if disclosure patent a comprehend to difficult more be would certainly it.

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Fig 2 is objected to for appearance of "A preferred method of the invention" ont eh drawing. Its presence suggests that the other drawings are merely less preferred embodiments. In fact, they are prior art.

Fig. 1 (top) is objected to on the merits: In the prior art method, doesn't the "secondary sludge" depart from the "Clarifier" (the one immediately downstream of the "Biological Treatment" step) rather than from the "Biological Treatment" vessel? If a stream were taken off from the "Biological Treatment," would it not more appropriately be referred to a "mixed liquor" rather than "secondary sludge"? Further consideration of this point is requested. See for example USP 6444124 to Onyeche for "System and method for improved treatment of wastewater." If that prior art figure were amended to show the secondary sludge stream coming off the "clarifier," such alternation would not be viewed as new matter.

Claims 1 – 19 are rejected under 35 U.S.C. Sec. 112, 2nd parag., for failing to particularly point out and distinctly claim the subject matter for which patent protection is sought. Claims1and 12 each recited a composition of "increased" nitrogen and phosphorus content and "increased" economic value. Increased relative to what? Further, it is not clear if "beneficiated" adds any limitations not otherwise present in the claims, and if so, what the nature of that additional limitations is. Suppose a person were to make, use, sell, or offer for sale a sludge solids composition comprising digested sewage sludge, ammonium sulfate, mineral acid, and phosphate salt. Would that person infringe claim 1, for example, if claim 1 were to issue as a patent? I'd say that person would not be on fair notice of the proscribed composition for want of reasonable precision as to the nature of limitations explicit or implied through "beneficiated" and/or "increased." Correction is required.

Claim 1 requires a digested municipal sludge, ammonium sulfate, a mineral acid, and a phosphate salt. USP 5275733 to Burnham describes a composition comprising digested municipal sludge ("wastewater sludges... processed to a PSRP level... [PFRP]" col 7 line 16)(taken in view of reference's earlier description of 7 – 9 such PFRP, including thermophilic aerobic digestion at col 3 line 48, or anaerobic digestion at col 3 line 3), ammonium sulfate (col 8 line 5), a mineral acid (e.g., phosphoric acid at col 8 line 14), and a phosphate salt.

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Accordingly, Burnham anticipates claim 1. Claims 1, 5, 6 are rejected under 35 U.S.C. Sec. 102(b) over Burnham '733. The relative proportion of a materials in a composition is a known result effective variable, so variation thereof would have been obvious. Accordingly, claims 2 – 4, 7 – 10 would have been obvious under 35 U.S.C. Sec. 103(a) over Burnham. Claims 11 – 19 are rejected under 35 U.S.C. §103(a) over Burnham in view of Moore '831. Per claim 11, Moore suggest granulation and drying of the product. Per claims 12 – 19, Moore suggest use of superphosphoric acid as the phosphorus source.

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EP 0143392 describes adding hygroscopic ammonium sulphate (claim 1) to a digested sludge (pages 2 – 3) and acidifying the same. Moore suggests acidification with superphosphoric acid. Burnham suggests the same with phosphoric acid. Moore teaches the ferticlizer material having a phosphate component, so addition of phosphate would have been obvious. The relative proportion of individual compounds is a know result effective variable, so variation thereof would have been obvious. Claims 1 – 19 are therefore obvious under 35 U.S.C. Sec. 103(a) over EP '392, Moore '831 and Burnham.

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Claims 1 – 19 are rejected under 35 U.S.C. Sec. 103(a) as obvious over JP 58032638 in view of Moore '831 and any of the various references of record which teaches "ammonium sulfate" as a hygroscopic medium desirable for formulation in fertilizer pellets or granules. Moore '871 suggests substitution of superphosphoric acid for phosphoric acid.

CHESTER T. BARRY

703-306-5921 9/29/02

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